## Odors from the BP Oil Spill June 1, 2010

nose, or throat irritation, nausea, or headaches harmful to breathe. Some residents along the coast report smelling odors, and experiencing eye, Residents of the Gulf Coast are concerned about odors from the BP oil spill and whether they are

potentially affecting residents along the shoreline. burning of oil and pollutants that may evaporate from the spill as it spreads closer to shore EPA and CDC are concerned about the odors and any health effects from the pollutants causing We have been particularly concerned about pollutants that could reach shore from the

available at this time. We are continuing to work to increase our information base. petroleum products are being found at low levels. normal on the Gulf coastline for this time of year and odor-causing pollutants associated with EPA's air monitoring to date, has found that air quality levels for ozone and particulates are certain pollutants that are associated with petroleum products and from the burning oil out at sea. Since late April, EPA has been monitoring the air at multiple sites along the Gulf Coast for This report summarizes the information that is

monitoring data along the Gulf Coast, please see http://www.epa.gov/bpspill/air.html when a person leaves the area. The low levels that have been found are not expected to cause enough to cause long-term harm. These effects should go away when levels levels go down or temporary eye, nose, or throat irritation, nausea, or headaches, but are not thought to be high health problems. The levels of some of the pollutants that have been reported to date may cause with these chemicals to determine whether pollutants in the air would be expected to cause sampling efforts and used data on the likely short term and long term health effects associated higher we will provide updates to the public. long term harm. We will continue to monitor the air and if we begin to detect levels that are The Centers for Disease Control and Prevention (CDC) has reviewed the results of EPA's For up-to-date information on air quality and

What can people do if they smell odors related to the spill?

other medical issues, please seek medical care as soon as possible. on and set to a recirculation mode. For example, to the extent possible, close windows and doors, turn your air conditioner In general people should limit exposure to the spill and related odors as much as possible If you are experiencing severe incidents of nausea or

Some of the odors and chemicals that are being identified in the area are as follows:

"Rotten Egg" Odor If you smell a "rotten egg" odor, you may be smelling hydrogen sulfide (H<sub>2</sub>S).

0 above, these effects should go away when H2S levels go down, or when a person leaves the area. The levels of H<sub>2</sub>S that have been reported to date may cause irritation, but as stated

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0 source near the monitor rather than from the oil spill. We do not know the exact marshes and sewage treatment plants. Because H2S has only been seen at individual source of H<sub>2</sub>S in these areas monitors on an infrequent basis, this indicates the H2S is more likely from a local While, H<sub>2</sub>S is associated with oil and natural gas extraction, it also comes from

## "Gas Station-Like" Odor

- 0 car – it may be volatile organic compounds, or VOCs. If you smell a 'gas station' like odor - the odor you might smell while filling up your
- 0 The key toxic VOCs in most oils are benzene, toluene, ethylbenzene, and xylene
- 0 your air conditioner to a recirculation mode. The smell may become stronger if the effect of inhaled VOCs. The VOC smell may give you a headache or upset stomach wind or weather change you should stay indoors to limit your exposure, close windows and doors, and set but is not expected to cause long term health effects. If you are sensitive to VOCs, throat, and skin. It is possible that people with asthma may be more sensitive to the Exposure to low levels of VOCs may cause temporary irritation of the eyes, nose,
- 0 Historical data on oil spills indicate that VOCs are likely to evaporate, disperse and/or react quickly after the oil reaches the surface of the water
- 0 the Gulf Coast, please see http://www.epa.gov/bpspill/air.html. to the public. the air and if we begin to detect VOC levels that may be harmful will provide updates Currently, we are measuring very low levels of VOCs. We will continue to monitor For up-to-date information on air quality and monitoring data along

## "Asphalt" or "Tar-Like" smell

- 0 or tar-like" odors compounds (or SVOCs) and asphaltenes, and these could be responsible for "asphalt-There are chemicals remaining in the weathered oil known as semi-volatile organic
- 0 to determine if any might be present at unsafe levels. EPA is monitoring for SVOCs onshore to quantify the amounts of SVOCs in the air (insert link to SVOC data) These data are posted here
- about potential health concerns related to these compounds. As we get information about specific SVOCs, we will provide additional information